

AGE/SSD/SBE/0000 88/19-20 dt. 12/02/2020

first and final bill

M. A. R. 57 (Rule 116)
Measurement Book

No. B

564732

Serial No.

Name of Work

From

To

Name of Contractor of nature of Agency

M. S. Venkatesh. Class - I Contractor

Date of commencement of work

Date	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Name of work : Modified Estimate For the work of Improvements to Drain and Asphaltting to Abbigerse Area in Shettyhalli Area in Ward No. 12 Shettyhalli Sub Division (2-works) Package No. 122 2017-18-(01) Improvements to Roads and Asphaltting to Abbigerse Area Forest Road and Shettyhalli area, Raghavendra Layout Main Road in ward no. 12 Shettyhalli Sub Division Name of Agency :- M.S. Venkatesh Est Cost : Rs. 250.00 Lakhs Job Code No: 012-18-000015 and 012-18-000016 Work Order No: EE/DD/WD/301/2018-19 Dated: 02-02-2019						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents
		Number	Length	Breadth	Depth	
1	2	3	4	5	6	7
	pre measurement recorded on:- Not executed Item No: 1) Removing B.S. Slab of Drain and (page No 25., I. no. S. 32 of KPWD S.R. 2016-2017)					0.00 at Rs. 73.59
	pre measurement recorded on:- 01.09.2019 Item No: 2) Earthwork excavation by manual means Ordinary soil involving an average horizontal throw 2 meters and an average lift up to 0.5m excavated Surface leveled and sides neatly dressed, the dispo earth to be used neatly after breaking of clods Complete as per specifications. MONTH / Chapter 3 (P-141/19.1)					2667.30 at Rs: 97.32

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No. B

564733

No.
of Work From To
of Contractor of nature of Agency
f commencement of work

Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
	Number 3	Length 4	Breadth 5	Depth 6		
pre measurement recorded on:- 04/09/2019 Item no:- 3) K5R2B 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occurring during rolling including cost of all labours, 140M of machinery complete as per specifications. MONTH (Chapter 3)						
					300 QTY: 1052.90 Sqm	
					at RS: 5.93	
					UPTO 125% QTY: 1316.12 Sqm	
					at RS: 5.93	
					ABOVE 125% QTY: 7684.28 Sqm	
					at RS 5.93	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	
	pre measurement recorded on: Item no: 4) KSRB M300-55. Construction of grade and earthen shoulders with approved material gravel/musrum with all lifts & leads, transporting site, spreading, grading to required slope and compacted to meet requirement of Table No. 300-1 complete as per specification (including cost of watering charges & compaction by vibratory roller NORTH Specification No. 305						
						0.00	
						at Rs. 392.83	
	pre measurement recorded on 1. 09.09.2019 Item no: 5) KSRB M400-6.1 Construction of grade sub base grading - V as subbase and Drainage providing coarse graded crushed stone aggregate						

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No. B

564734

Material No.

Name of Work From To

Name of Contractor of nature of Agency

Date of commencement of work

S. No.	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
2	3	4	5	6	7	8	
	of granite/trap/basalt material, mixing in a mechanical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor graders on prepared subgrade and compacting with vibratory power rollers to achieve the 98% proctor density, complete as per specifications, Clause 401 of MORTH V revision (page No. 153, S. No. 20.5)						
						1230.36 cum	
					at Rs	1731.66	2130565.20
	Pre measurement recorded on 14.09.2019 Item no: 6) KSRRB Providing, laying, spreading and compacting crushed stones aggregate of granite/trap/basalt to wet mix macadam specifications including pre mixing the materials						

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No. B

564735

Serial No.

Name of Work From To

Name of Contractor of nature of Agency

Date of commencement of work

Date	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Pre measurement recorded on:- 08.12.2019 Item no:7) KSRAB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per Specifications. MONTH Specification No. 502						
				300	ATV	7041.50 Sqm	
				0.12	RS	30.86	
				UPTO 125%	ATV	8801.88 Sqm	
				0.12	RS	30.86	
				ABOVE 125%	ATV	18495.72 Sqm	
				0.12	RS	30.86	
						416477.92	

MEASUREMENT BOOK

Full description, etc, of work 2	Dimensions				Contents 7
	Number 3	Length 4	Breadth 5	Depth 6	
pre measurement recorded on:- 07.12.2019 Item no:- 8) KSRAB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and compressed air to receive bituminous treatment including cost of all materials, labour, 140M of machines complete as per specification.					
			BOA QTV	10222.80	Sqm
			at Rs:	3.56	360
		upto 1251	QTV	12778.50	Sqm
			at Rs:	3.56	450
		ABOVE 1251	QTV	8331.10	Sqm
			at Rs:	3.56	2960
pre measurement recorded on:- 09.12.2019 Item no:- 9) KSRAB 500-7. Drividing and applying					

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564736

Serial No.

Name of Work From..... To.....

Name of Contractor of nature of Agency

Date of commencement of work

Date	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	toe coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg. per 10 sqm, heating bitumen in boilers fitted with spray set. (excluding cleaning of road surface) including cost of all materials, labours, 170m of machineries complete as per specifications, MONTH Chapter 5					21109.60 sqm at Rs 13.06 275691.38	
	pre-measurement recorded on:- 09.12.2019						
	Item no:- 10) KSSR2B 500-11, providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base/binding course						

MEASUREMENT BOOK

Date 1,	Full description, etc, of work 2	Dimensions				Contents 7
		Number 3	Length 4	Breadth 5	Depth 6	
	including loading of aggregates with F. B loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed materials in hot tipper to paver and laying mixed materials with power finisher to the required level and grade, rolling by power roller to achieve the desired density, but excluding cost of primer / tack coat including lead, lift and cost of all materials, labours; How of machineries complete as per specification using 140/60 TPH Capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm) with 3.3% VG-30 Bitumen					
						BOQ QTY 979.48 Cu
						at RS ! 6210.95 Cu
						UP TO 125% QTY 76.00 Cu
						at RS ! 6210.95 Cu

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564737

Serial No.

Name of Work From..... To.....

Name of Contractor of nature of Agency

Date of commencement of work

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	pre measurement recorded on: 10.12.2019 Item no: (1) providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a power finisher to the required grade, level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specification, using 40/60 TPH capacity H.M.P with mechanical power Gr-II (30mm to 45mm) with 6% VG-30 Bitumen MORTH Specification No. 509 (S.F No. 21.22.6						

MEASUREMENT BOOK

Date 1	Full description, etc, of work 2	Dimensions				Contents 7
		Number 3	Length 4	Breadth 5	Depth 6	
	page No. 164			BOA QTY at Rs:		732.68 15283.4
			upto 1251 QTY	at Rs:		47.35 15283.4
	Item no:- 12) Add plastic to Bituminous or Bitumen			BOA QTY at Rs:		8264.72 30.23
			upto 1251 QTY	at Rs		534.00 30.23
	pre measurement recorded on:- 12.12.2019					
	Item no:- 13) Road marking with Not Applied Thermoplastic compound with reflector single beads on bituminous surface! - providing					

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564738

To
of Work From To
of Contractor of nature of Agency
commencement of work

Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
	Number 3	Length 4	Breadth 5	Depth 6		
laying of hot applied thermoplastic compound 2.5 mm thick including reflecting glass beads of 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC 35. The finished surface to be level, uniform and free from streaks and holes complete as per specification, MORTH specification No. 803 page No. 181, It - 24.15 of KPWD S.R. 2016-17					1035.45 cum	
premeasurement recorded on.					607.68	829039.95.
Item no. - 14) K&WB M800-35, providing and fixing of road stud 100x100 mm, die cast in aluminium, resistant to					Not executed	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Remarks
		Number	Length	Breadth	Depth		
1.	2	3	4	5	6	7	
	corrosive effect of salt and grit, fitted with reflectors, installed in concrete or asphaltic by drilling hole 30mm up to a depth of 60mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4: 1973 complete as per specifications					0.00	Nos
	pre measurement recorded on: Not executed					at Rs 402.35	0.00
	Item no:- 15) Refining B.S. Slob of Drain and pointing in C.M (1:3) (page No: 25, I No. 5.33 of KPWD S.R 2016-17)					0.00	sqm
	pre measurement recorded on: Not executed					at Rs 90.20	0.00
	Item no: 16) providing concrete slabs of selected						

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564739

No.

of Work From To

of Contractor of nature of Agency

of commencement of work

Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
	Number 3	Length 4	Breadth 5	Depth 6		
Quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc. I.No. 5.31 of KPWD S.R. 2016-17)					0.00 sqm 745.36 0.00	
pre measurement recorded on:- 02.09.2019						
Item no:- (17) Load charges for conveying the excavated earth including loading and unloading up to 10 kms or per directions					2667.30 cum 118.69 316581.84	
~~pre measurement~~						

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Audited and admitted for Rs. 27699170 = 00

Passed by Ch...

M. A. R. 57 (Rule 116)

Measurement Book

Audited and admitted for Rs. 2660285 = 00

Passed by Chicago for Rs. 2660285 = 00

No. B

Two Coarse sixty Six Lakh

Two thousand Eight hundred Fifty one

by ad...

1096311 = 00

664740

S. K. Senthil

Dimensions

Length

Breadth

Depth

Contents

Reference
to last
Measurement

Date

Full description, etc. of work

Number

4

5

6

7

8

1) Certified that the work done satisfactorily
 2) Certified that the debris removed from work spot and
 clean the road.

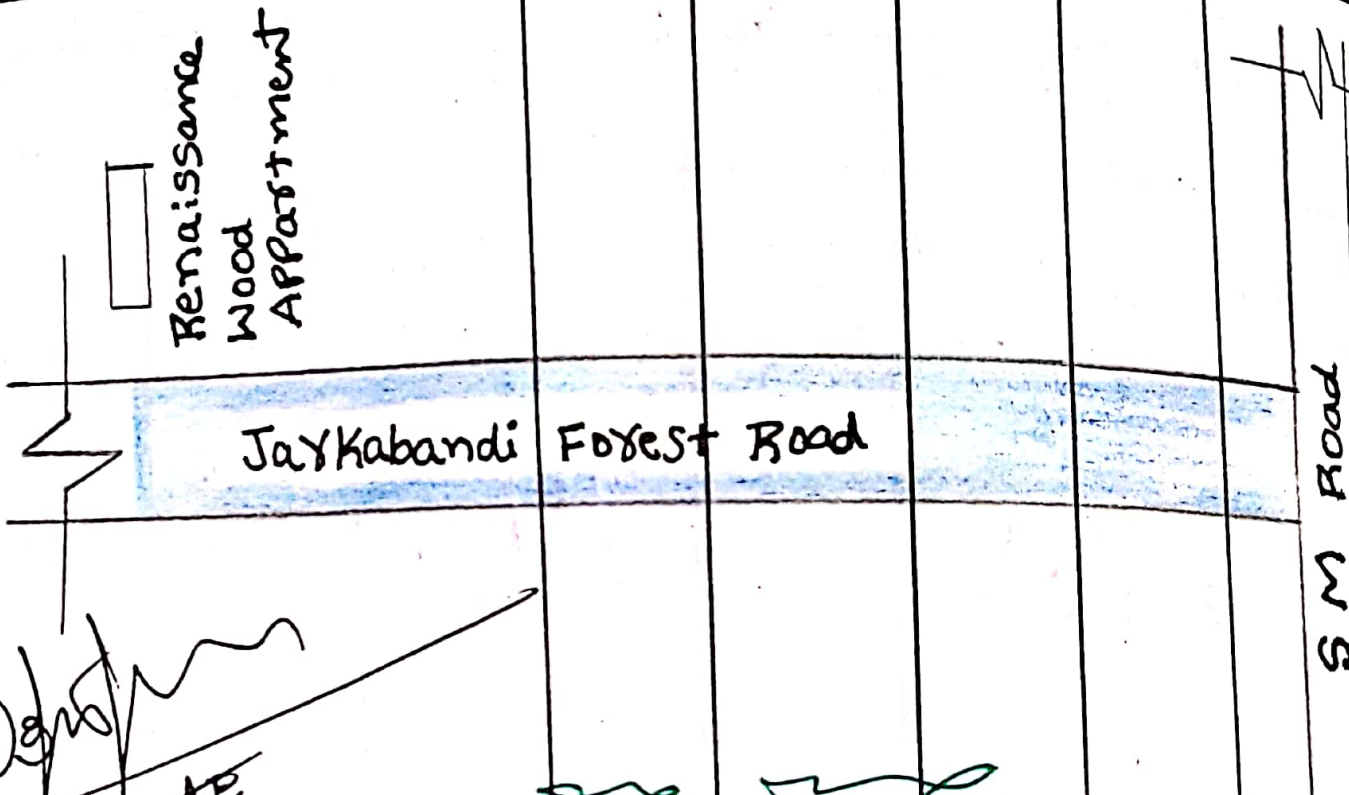
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ಸಹಾಯಕ ಅಭಿಯಂತ್ರಣ

ವಾರ್ಡ್ ನಂ. 12, ಶೆಟ್ಟಹಳ್ಳಿ
ಬಬ್ಬಿವಂಪಿ, ಬೆಂಗಳೂರು.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂ
 ಶೆಟ್ಟಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ
 ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ
 ಎಸ್.ಎಂ. ರಸ್ತೆ, ರಾ. ೧೨೨, ಬೆ

MEASUREMENT BOOK

Date 1,	Full description, etc, of work 2	Dimensions				Contents 7
		Number 3	Length 4	Breadth 5	Depth 6	
	 Renaissance Wood Apartment JayKabandi Forest Road SM Road ASphalt					
	ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಶಿಬಿರ ಕಛೇರಿ ಬೃಹತ್ ಭವನ ಎಸ್.ಎಂ.					

M. A. R. 57 (Rule 116)
Measurement Book

No. B

564741

Serial No.

Name of Work From..... To.....

Name of Contractor of nature of Agency

Date of commencement of work

Date 1	Full description, etc., of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
						10. 10. 2020 ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು	

ಸಹಾಯಕ ಕಾರ್ಯವಲಕ ಅಭಿಯಂತರರು
ಶಿಬಿರ ಉಪವಿಭಾಗ, ದಾನಕಟ್ಟೆ ಪಟ್ಟಣ
ಮಹಾನಗರ ಪಾಲಿಕೆ